SEMESTER END EXAMINATION, APRIL-MAY, 2025

Course Name: - BPO **Year:- II**

Paper Name: - Pharmacology **Paper Code:- BPO208**

Time - 3 Hrs + 20 minutes per hour extra time for V.I. & examinees with writer. **Max Marks-70**

Instructions:

- The question paper consists of three sections namely A, B, C. All sections are compulsory.
- Section A- Each question carries **3 marks**. **All questions are compulsory**.
- Section B- Answer any **5 out of 7** given questions. Each question carries **7 marks**.
- Section C- Answer any **2 out of 3** given questions. Each question carries **10 marks**.

निर्देश:

- प्रश्न पत्र में तीन खण्ड अ, ब, व स हैं। सभी खण्ड अनिवार्य हैं।
- खण्ड–अ में प्रत्येक प्रश्न **तीन अंक** का है। **सभी प्रश्न अनिवार्य हैं।**
- खण्ड–ब में **सात प्रश्नों में से किन्हीं पाँच** प्रश्नों के उत्तर दें। प्रत्येक प्रश्न **सात अंक** का है।
- खण्ड–स में **तीन प्रश्नों में से किन्हीं दो** प्रश्नों के उत्तर दें। प्रत्येक प्रश्न **10 अंक** का है।

Section – A (खण्ड–अ)

Objective Questions (वस्तुनिष्ठ प्रश्न)

1. Answer all the following questions. 5x3 =15

i) Insulin is secreted by:
   a) Alpha cells
   b) Beta cells
   c) Delta cells
   d) Gamma cells

ii) First-line drug for acute asthma:
   a) Alpha agonist
   b) Beta agonist
   c) Alpha antagonist
   d) Beta antagonist

iii) PPIs include:
   a) Pantoprazole
   b) Rabeprazole
   c) Both (a) and (b)
   d) None

iv) Gout is a disorder of:
   a) Purine metabolism
   b) Pyrimidine metabolism
   c) Both (a) and (b)
   d) None

v) Pharmacokinetics studies:
   a) Drug mechanisms
   b) Drug absorption/distribution
   c) Drug side effects
   d) Drug interactions

Section - B
Short Answer Questions

2. Answer any five of the following questions. 5x7=35

i. Explain drug transport across biological membranes.

ii. Describe asthma control therapy.

iii. Define bioavailability and bioequivalence.

iv. Classify cholinergic drugs with examples.

v. List factors modifying drug response.

vi. Write on note on NSAID drug.

vii. Explain different routes of drug administration.

Section - C
Descriptive Questions

3. Answer any two of the following question. 2x10=20

1. Classify oral hypoglycemics and explain MOA of glimepiride.
2. Define and classify sedative and hypnotics. Explain mechanism of barbiturates.
3. Explain drugs used in asthma.

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